

FIG. 16

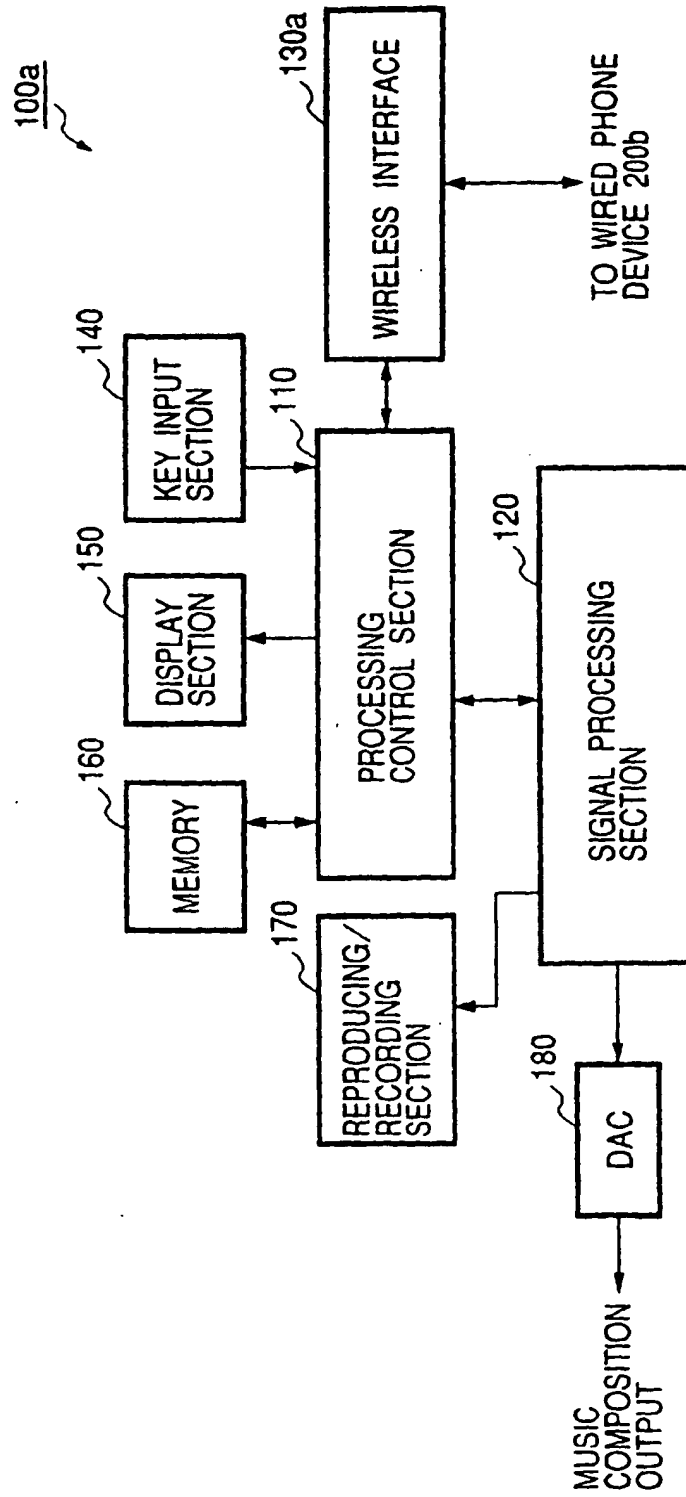


FIG. 17

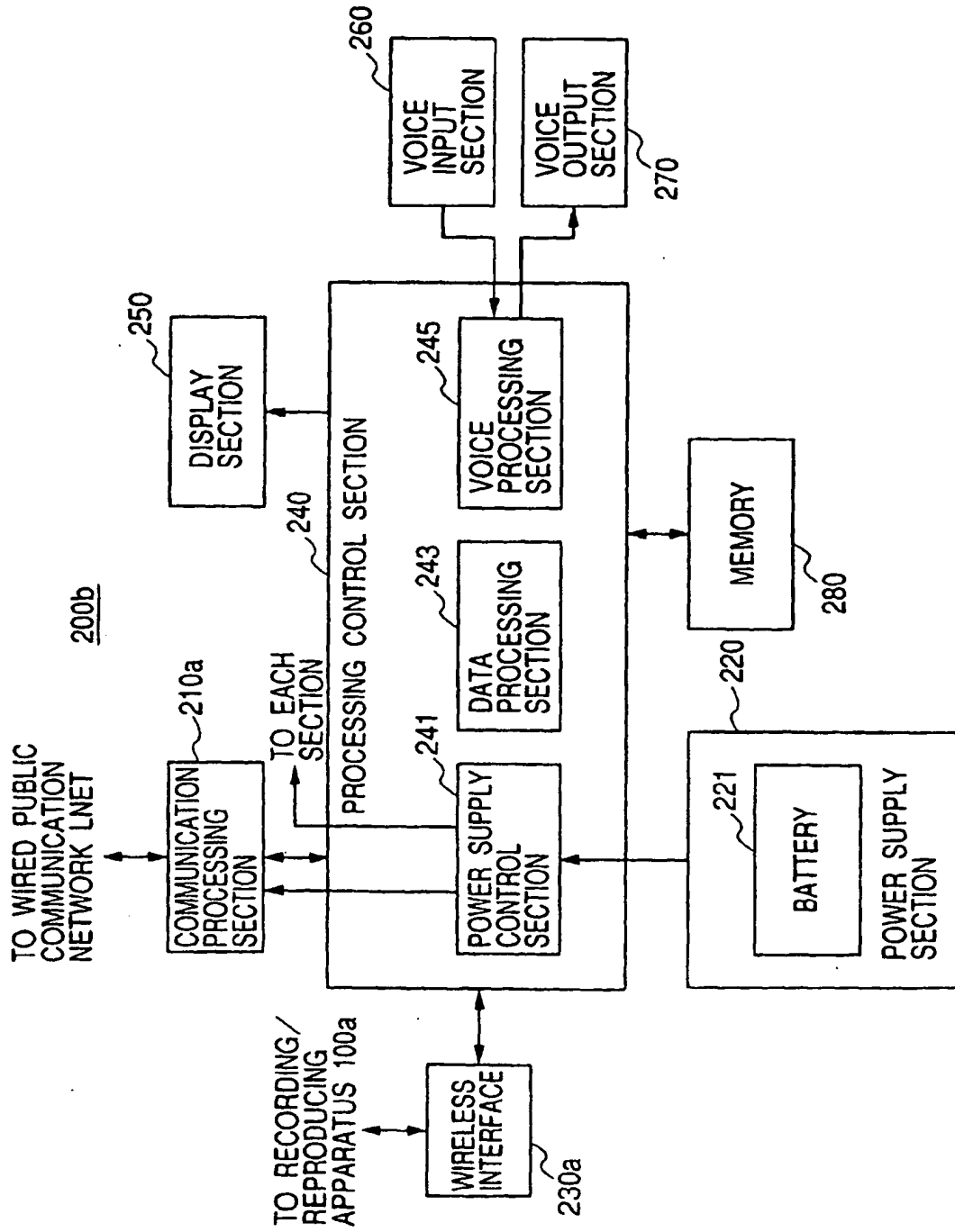


FIG. 18

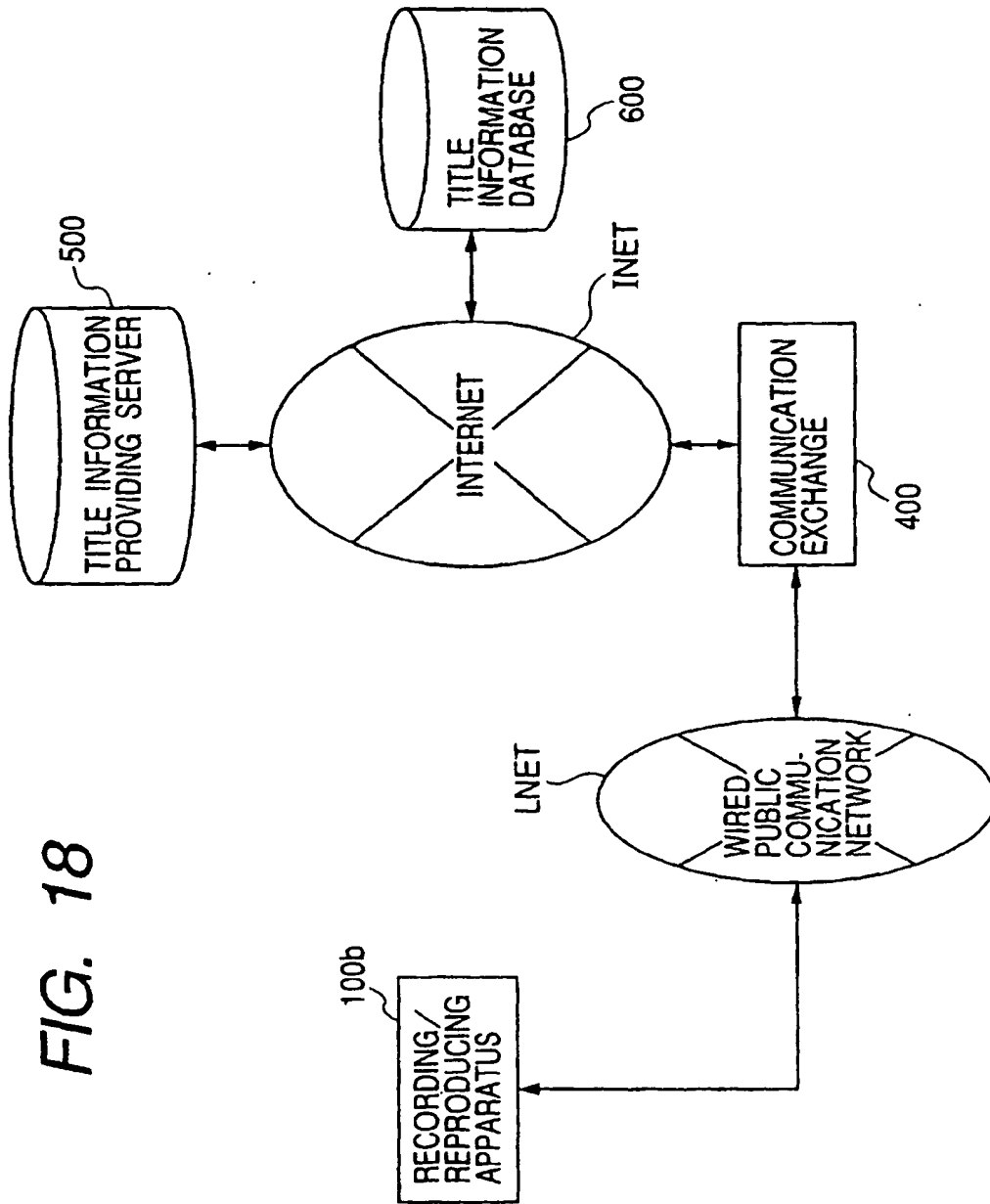


FIG. 19

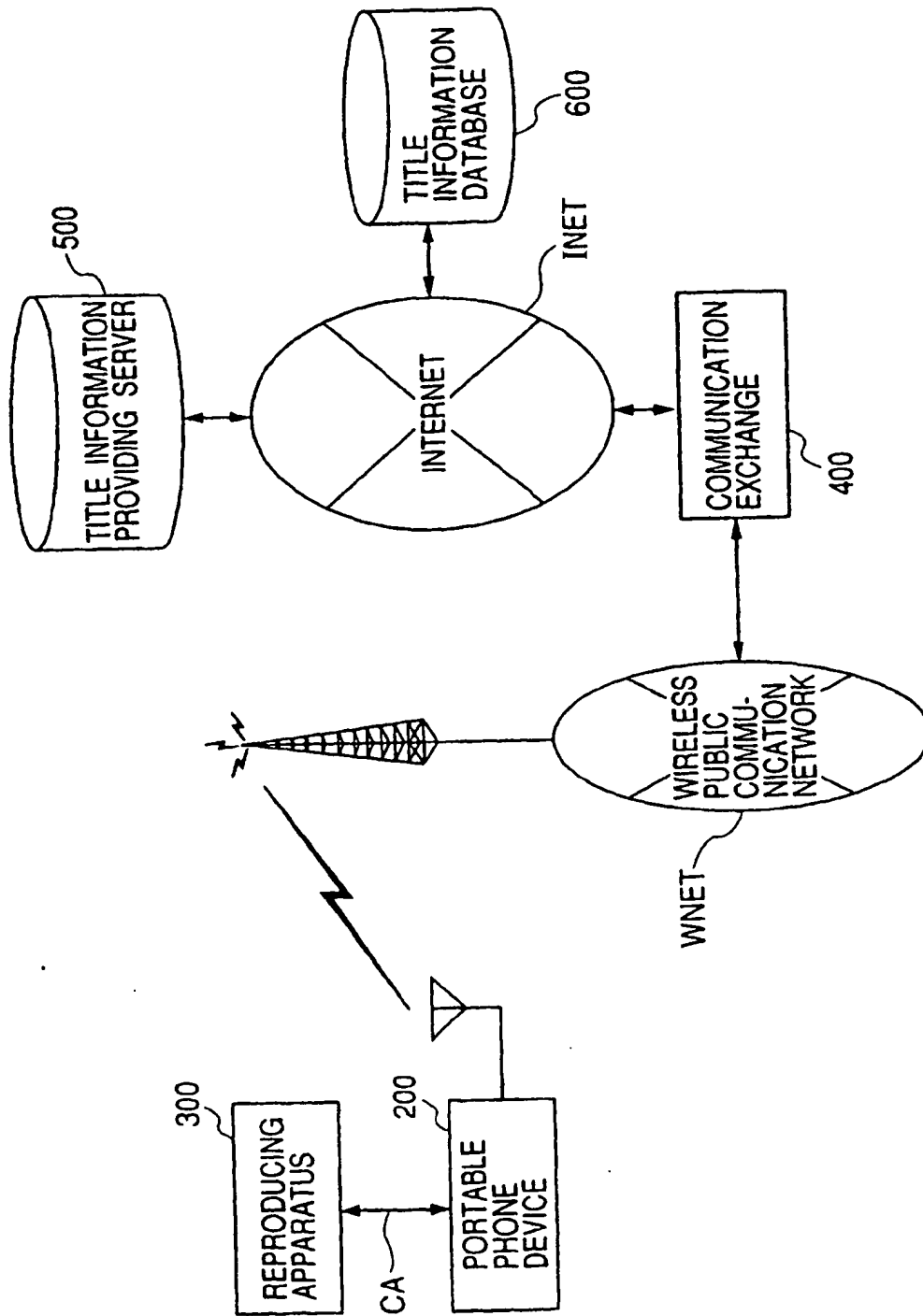


FIG. 20

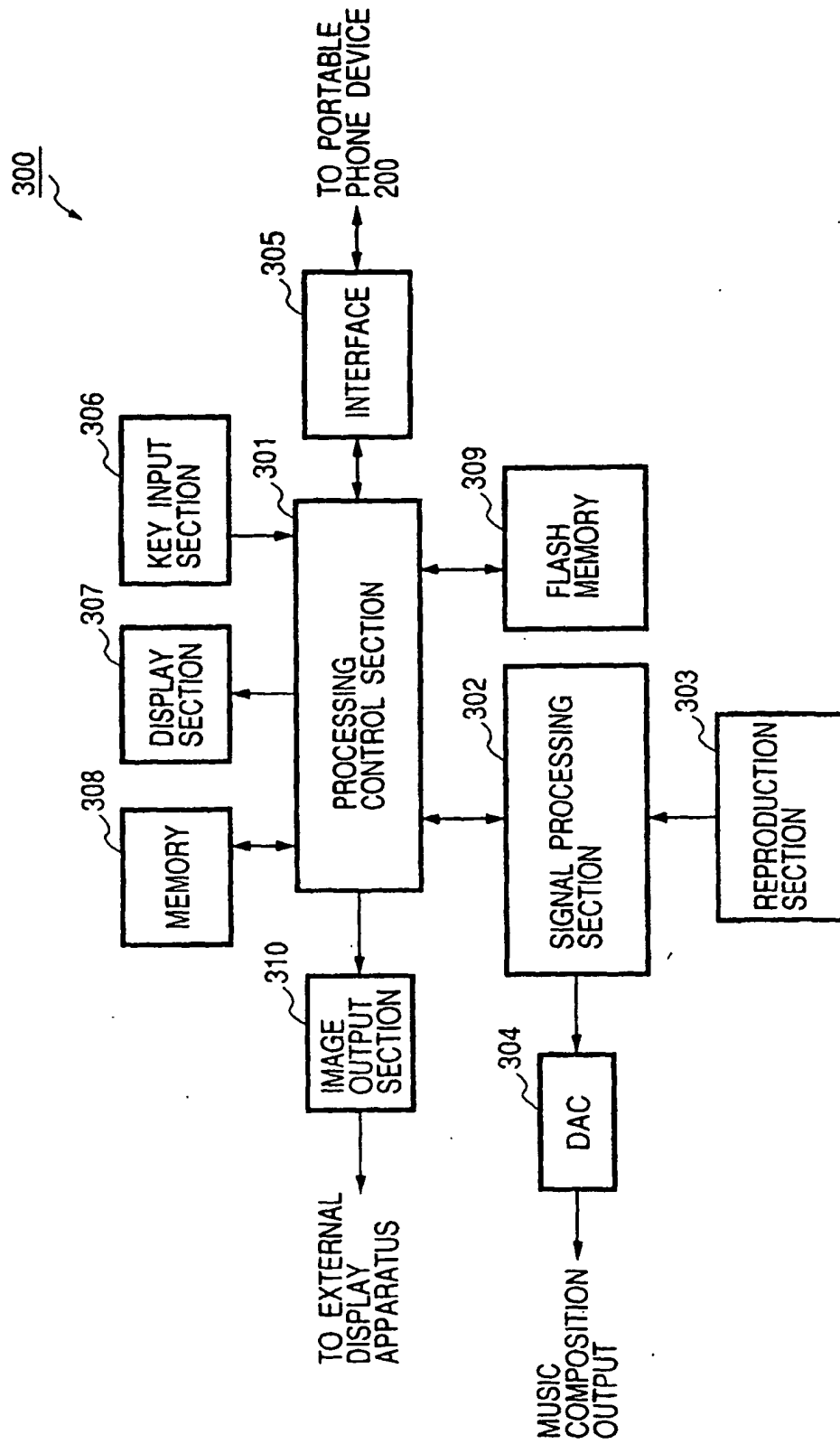


FIG. 21

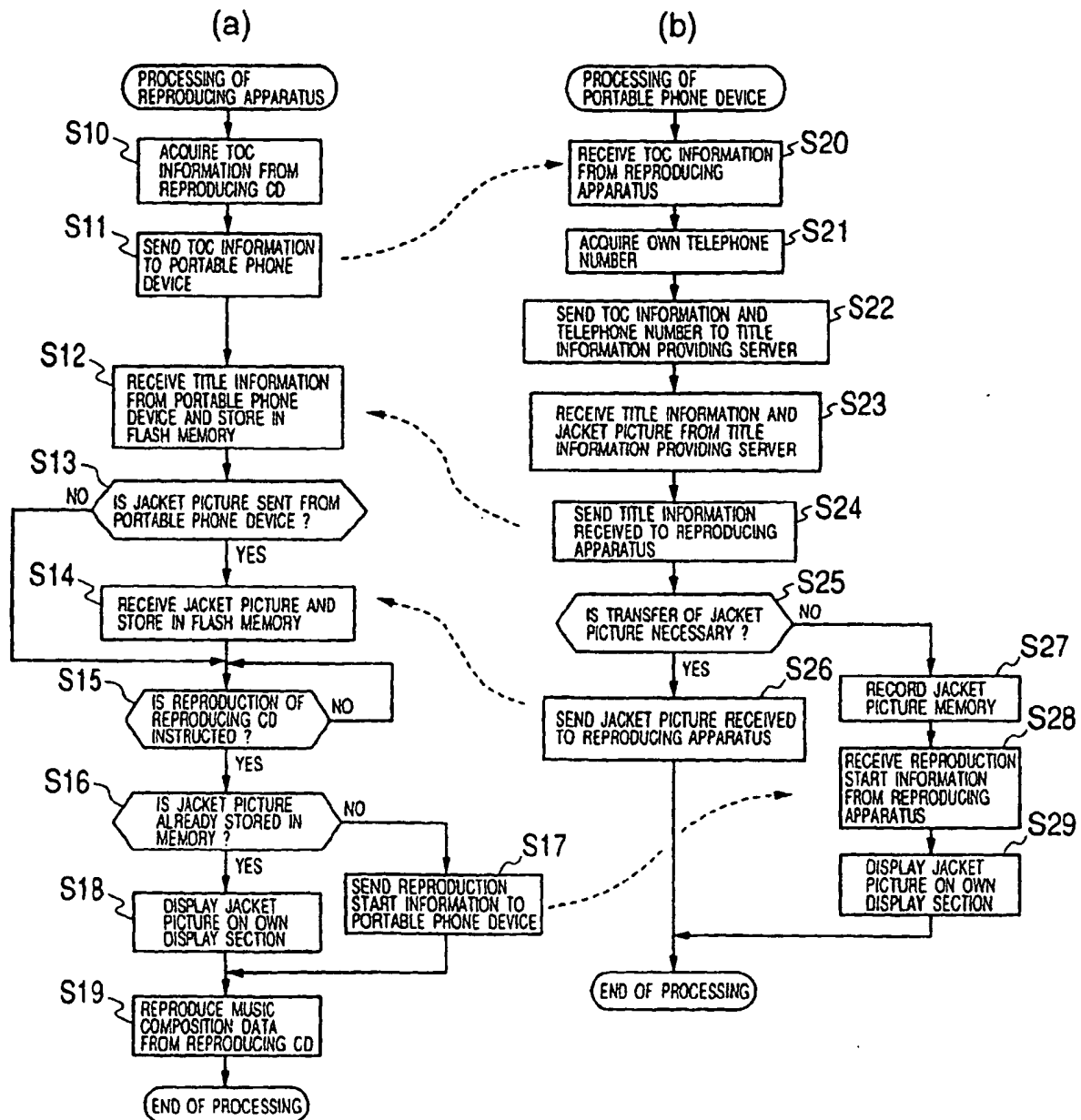


FIG. 22

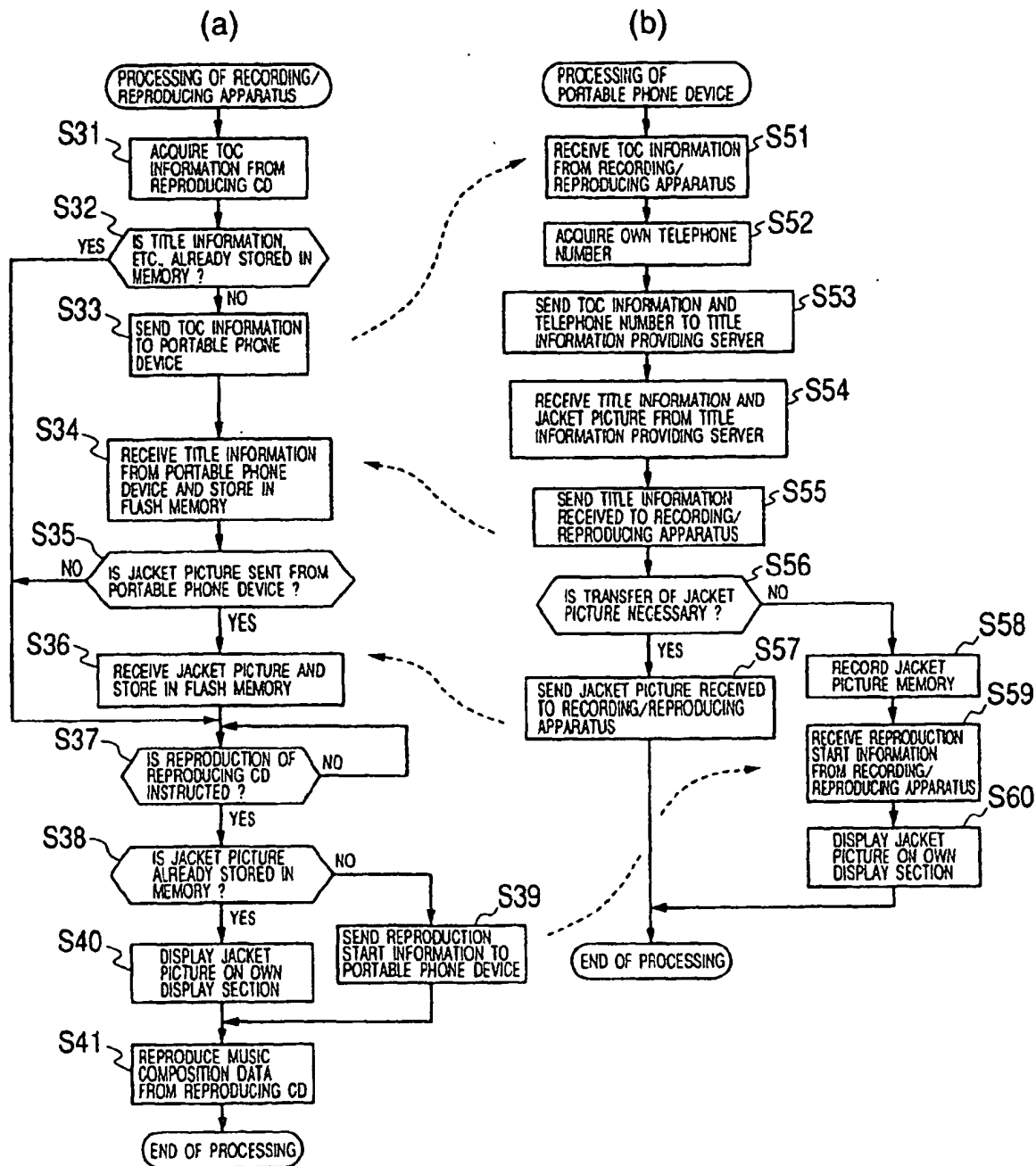


FIG. 23

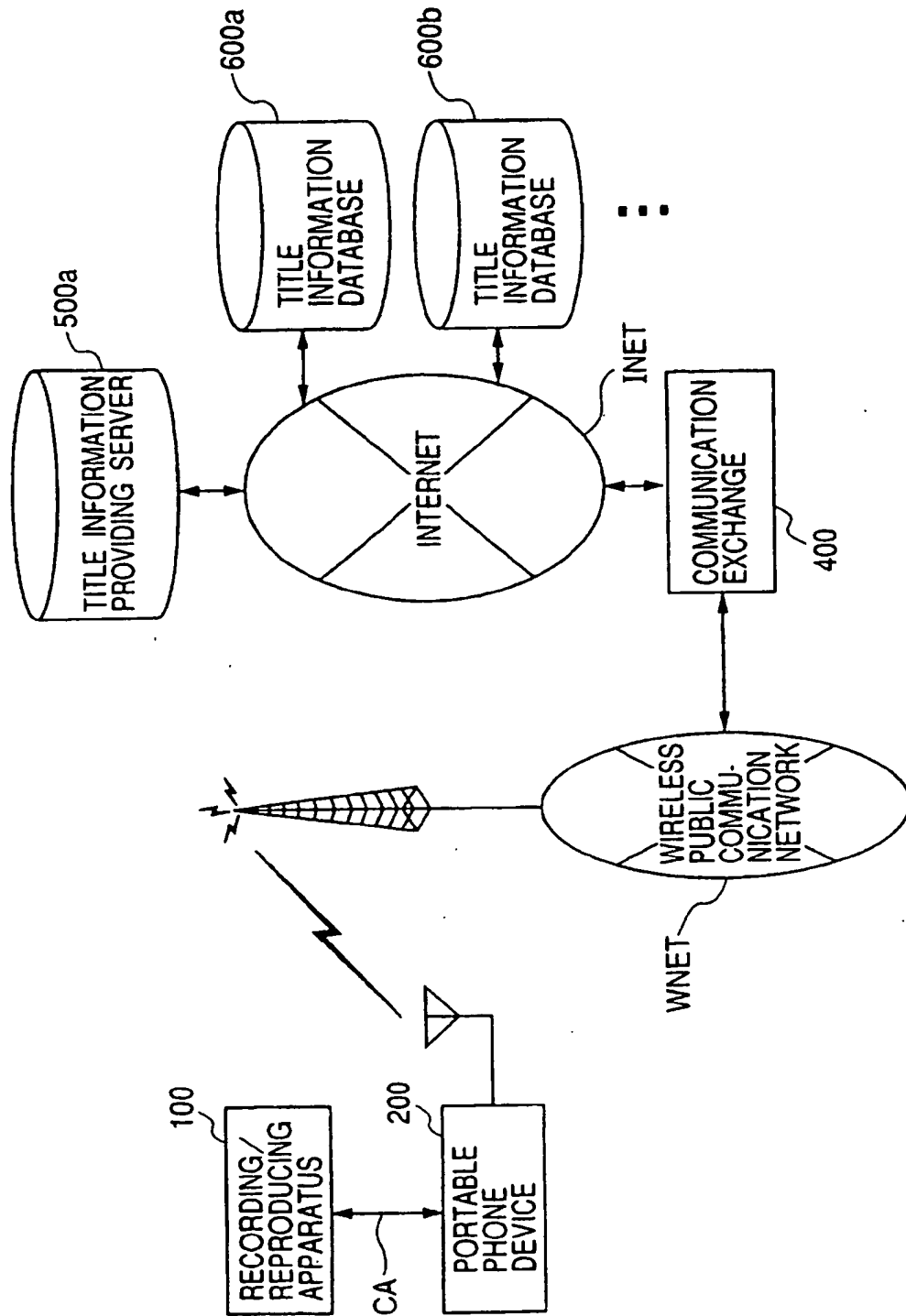




FIG. 24

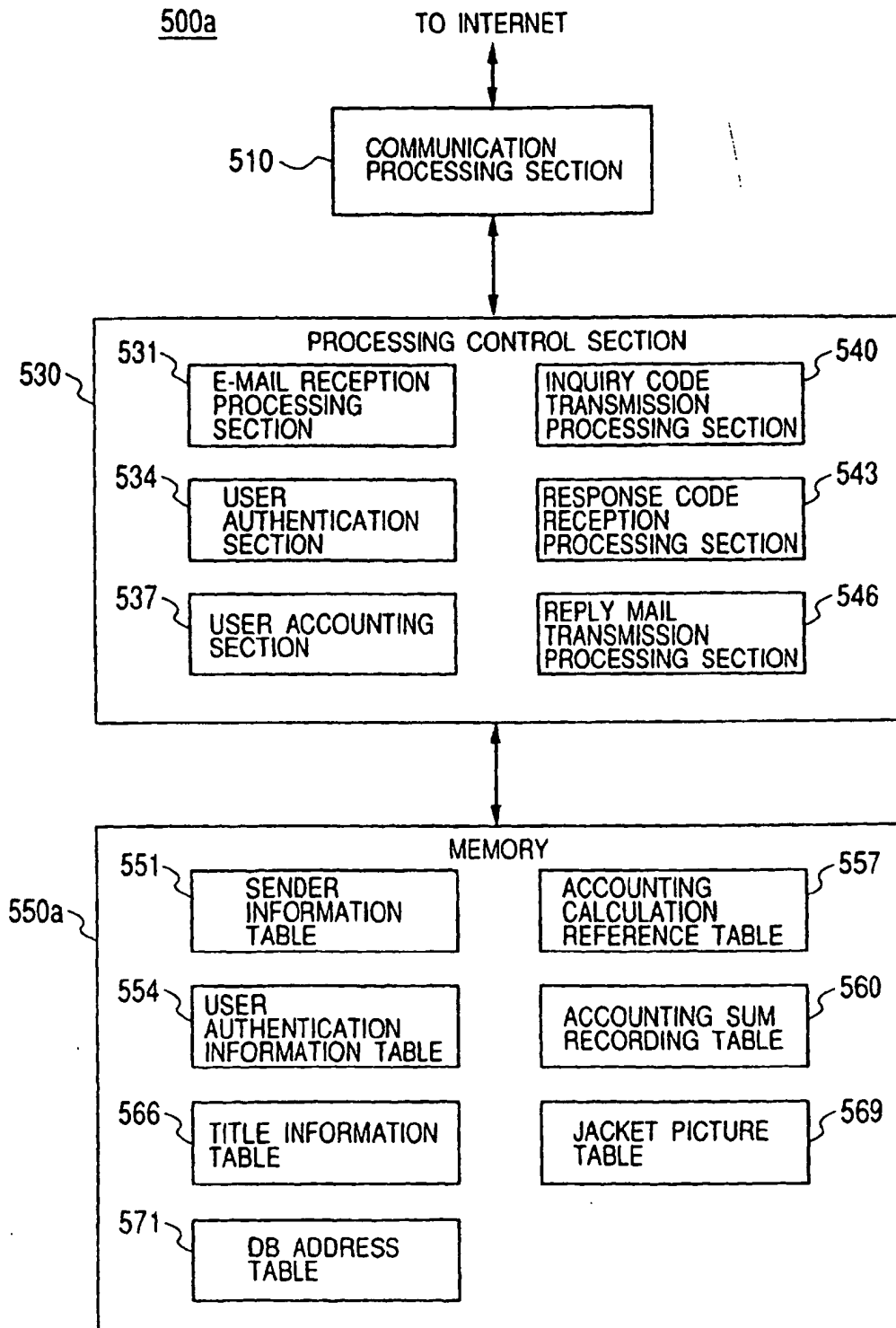


FIG. 25

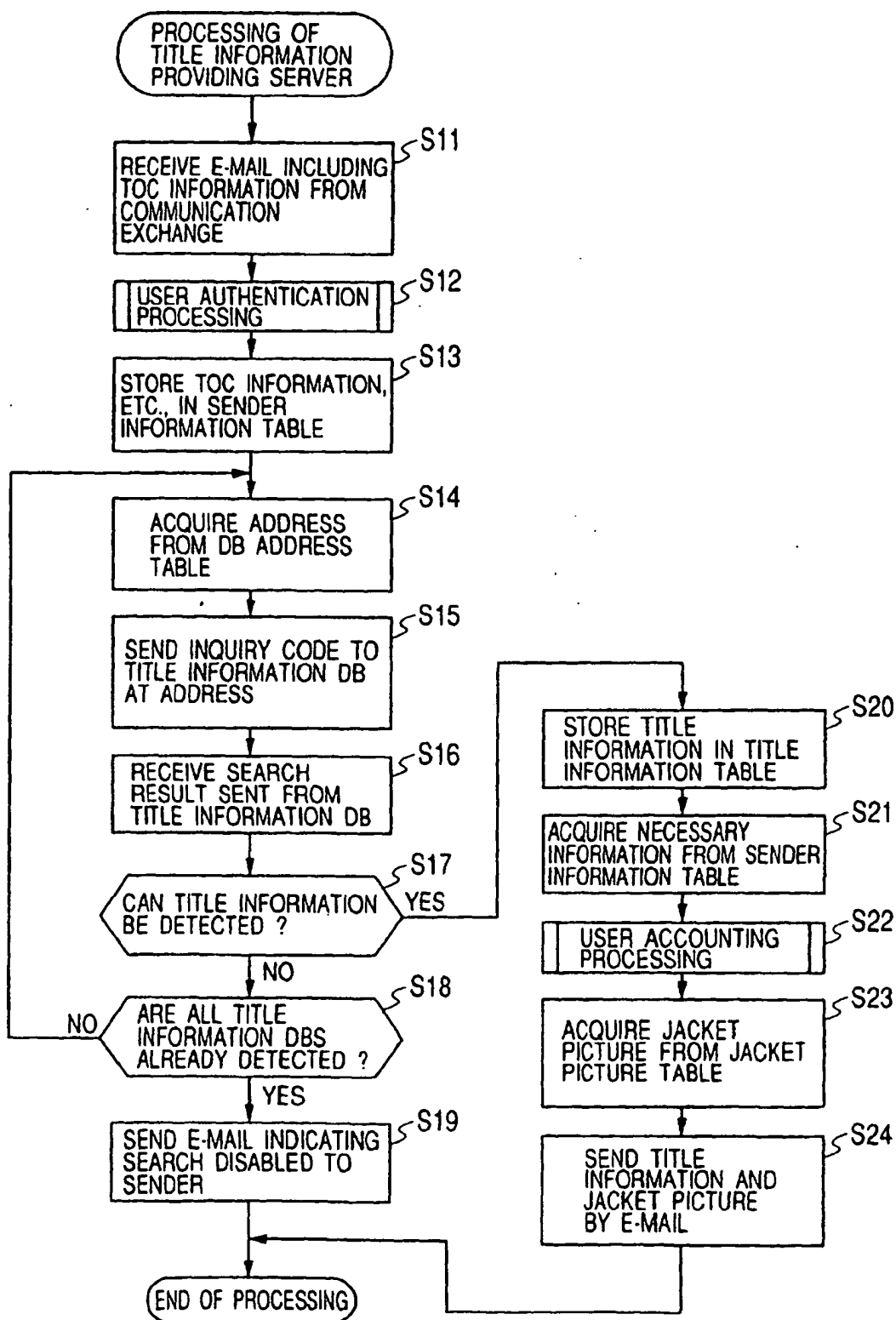


FIG. 26

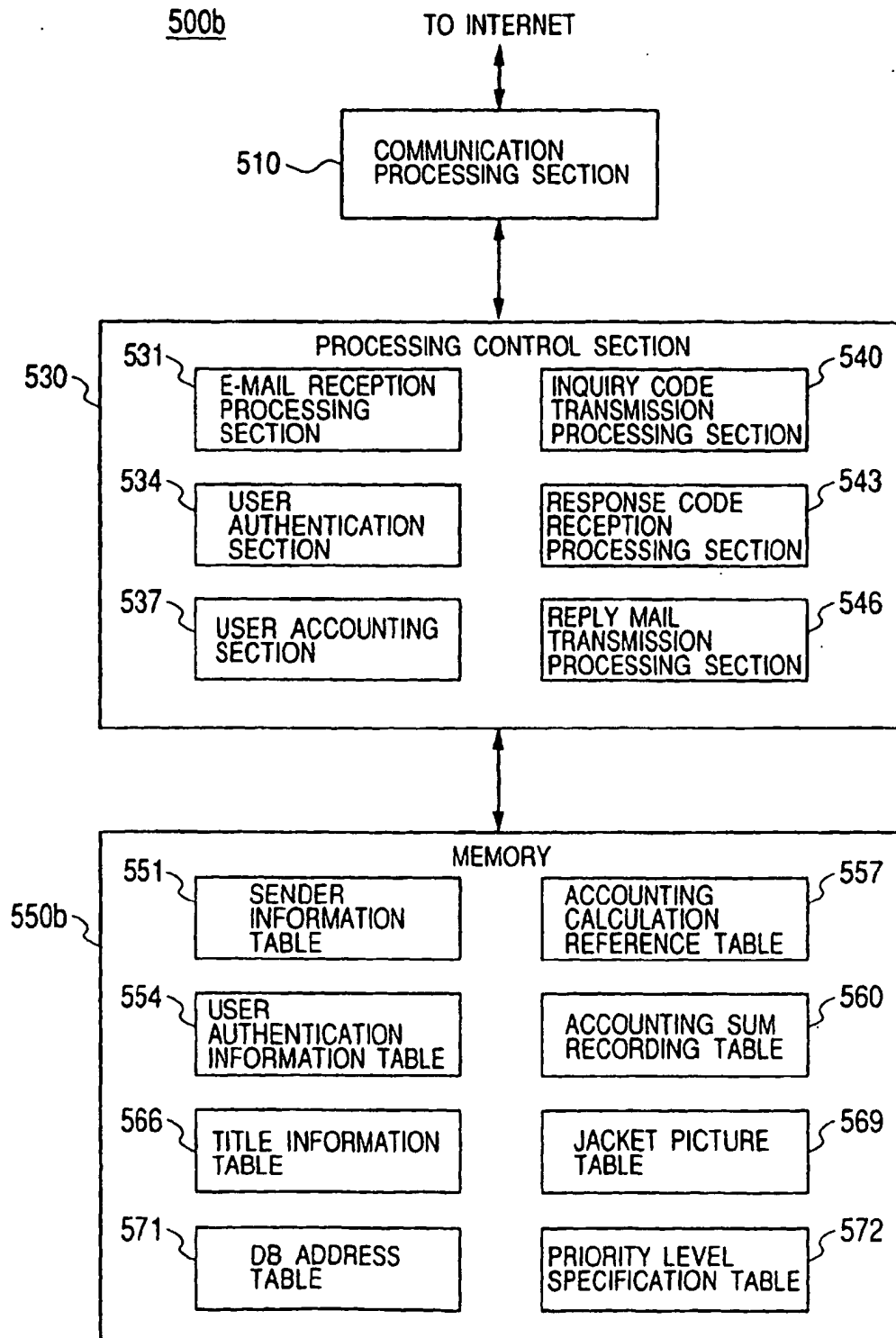


FIG. 27

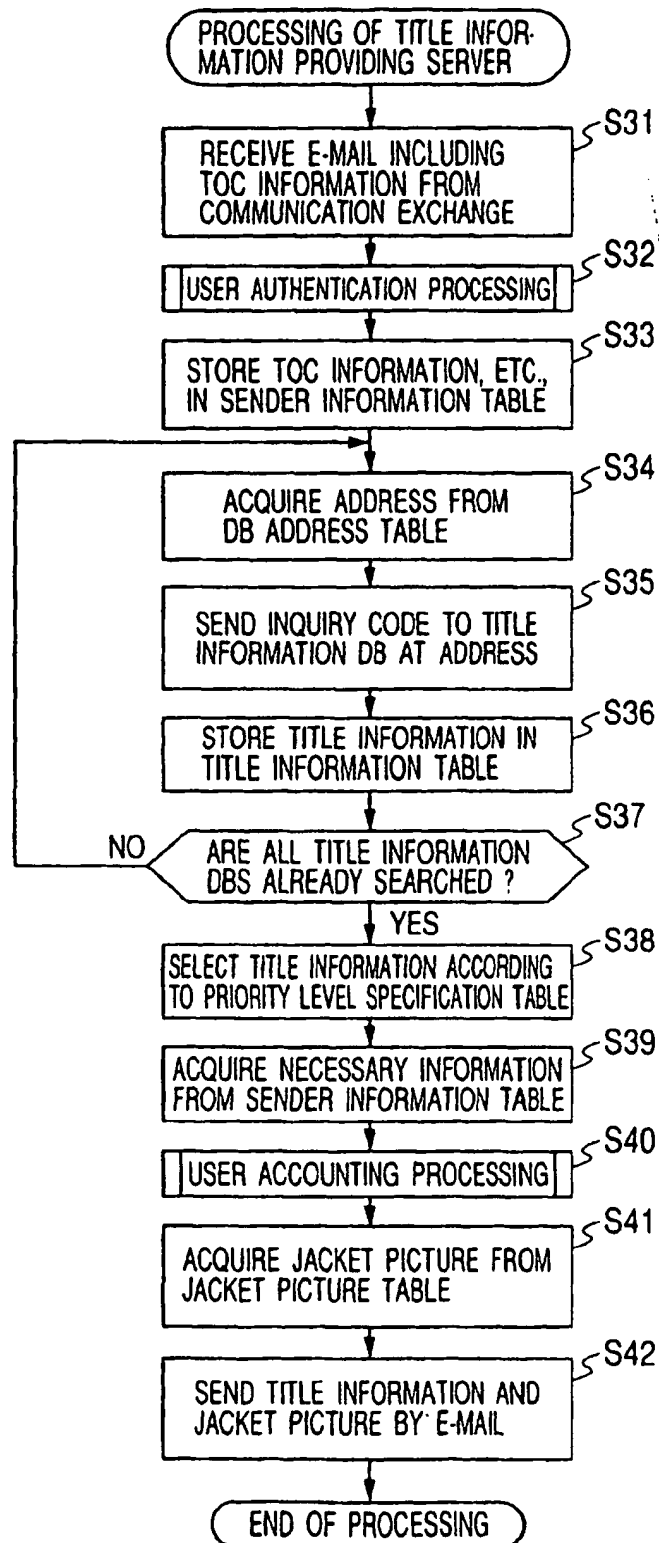


FIG. 28

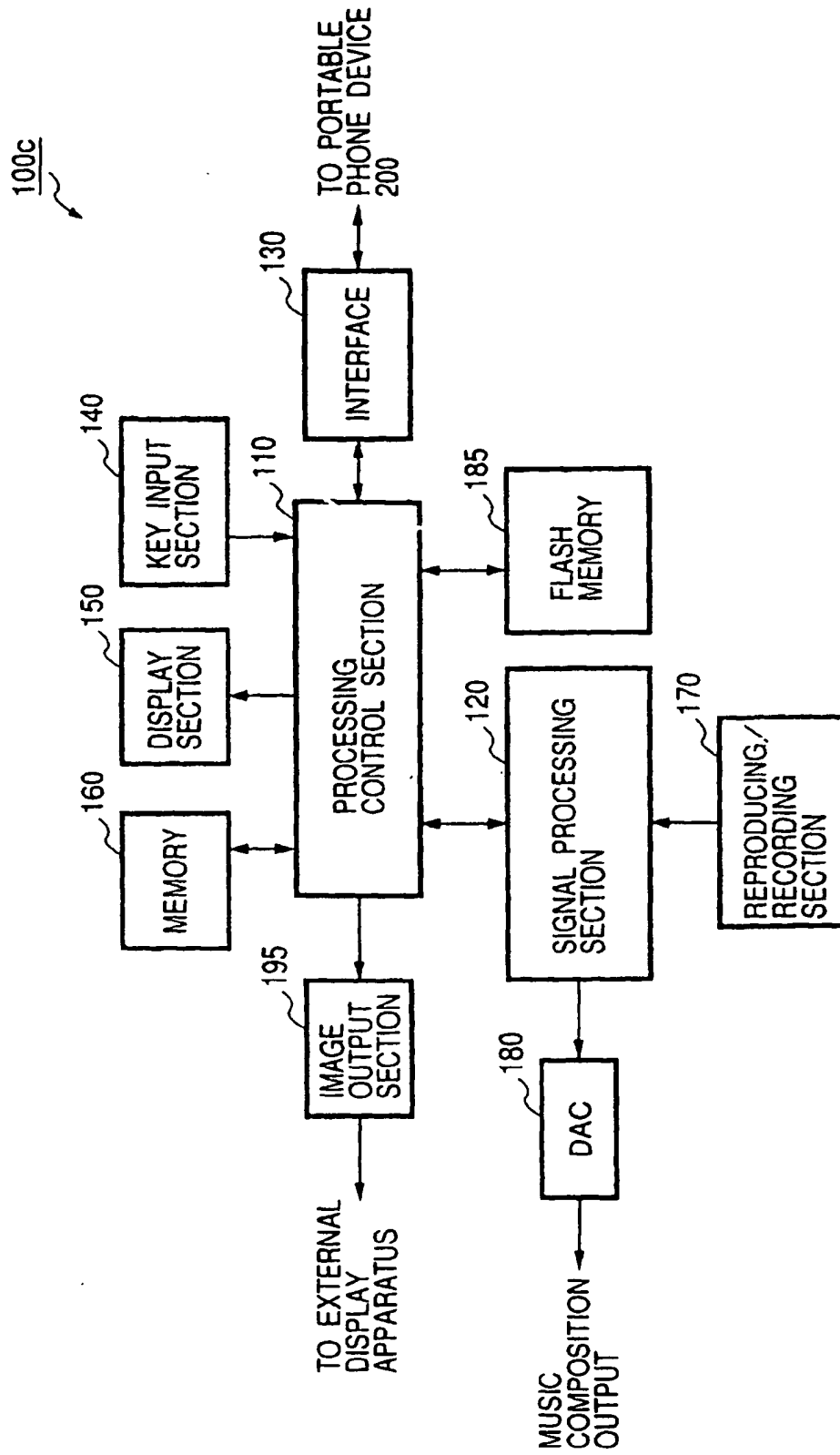
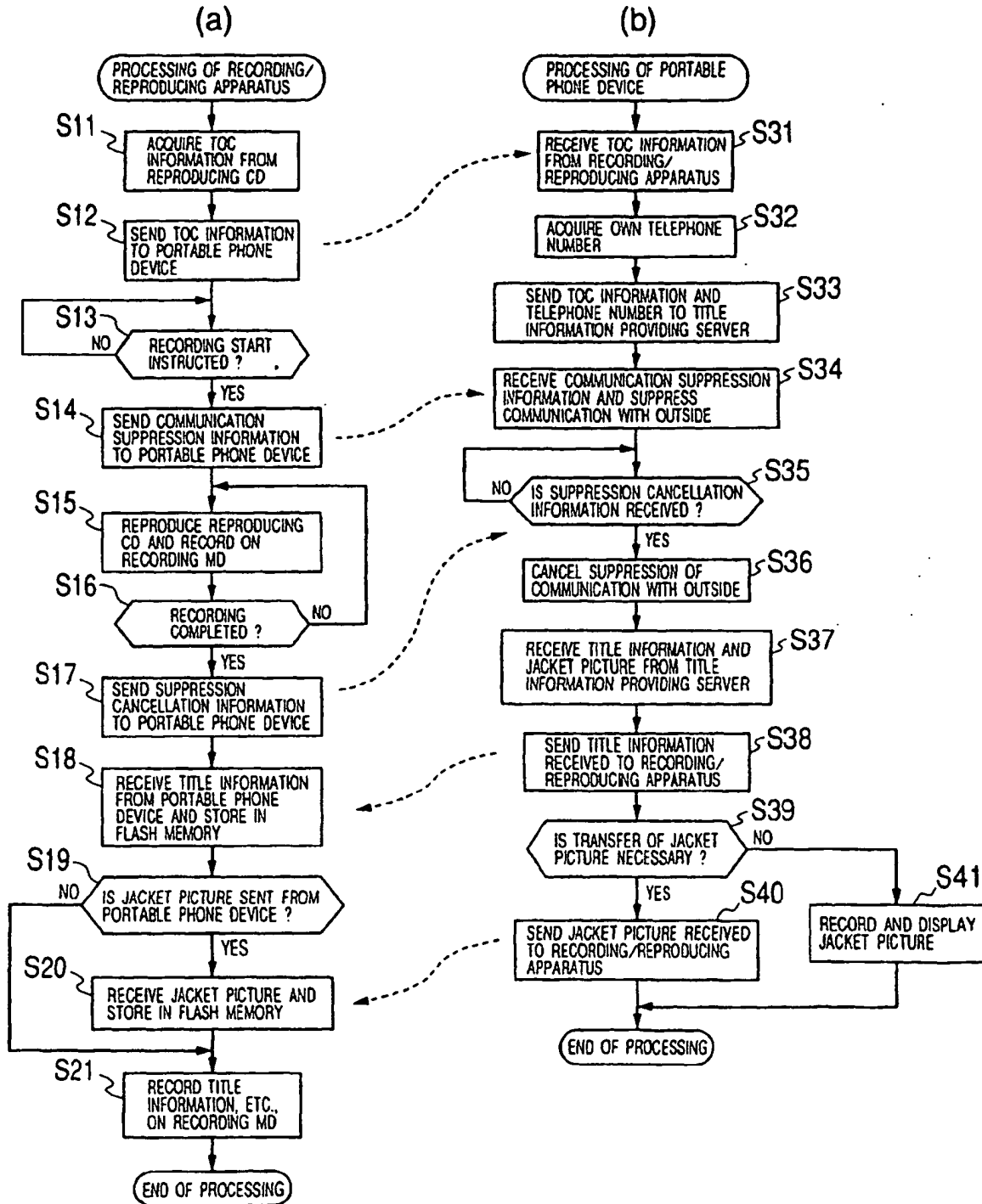


FIG. 29



## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/03772

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> Int.Cl <sup>7</sup> G10K15/02, G11B20/10, G06F17/30, H04M11/08  According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) Int.Cl <sup>7</sup> G10K15/02, G11B20/10, G06F17/30, H04M11/08  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1971-2002 Kokai Jitsuyo Shinan Koho 1971-2002 Jitsuyo Shinan Toroku Koho 1996-2002  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E,X	JP 2001-297528 A (Pioneer Electronic Corp.), 26 October, 2001 (26.10.01), Full text; Figs. 1 to 7 (Family: none)	1, 2, 16-18, 20, 26-28, 32, 34, 36
E,X	JP 2002-133763 A (Sanyo Electric Co., Ltd.), 10 May, 2002 (10.05.02), Full text; Figs. 1 to 5 (Family: none)	1, 2, 16-18, 20, 26-28, 36, 39
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Date of the actual completion of the international search 09 July, 2002 (09.07.02)		Date of mailing of the international search report 06 August, 2002 (06.08.02)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-288557 A (Sony Corp.), 19 October, 1999 (19.10.99), Full text; Figs. 1 to 9	1, 2, 9, 16-19, 20, 21, 23, 26-28, 36, 39
Y	& EP 935248 A2 & AU 1422299 A	3, 11, 32-35
X	JP 2000-149386 A (Sony Corp.), 30 May, 2000 (30.05.00), Full text; Figs. 1 to 15	1, 2, 9, 16-19, 20, 21, 23, 26-28, 36
Y	(Family: none)	3, 11, 32-35
X	JP 2000-200475 A (Sony Corp.), 18 July, 2000 (18.07.00), Full text; Figs. 1 to 16	1, 2, 9, 16-19, 20, 21, 23, 26-28, 36
Y	& EP 997812 A1	3, 11, 32-35
Y	JP 2000-215653 A (Escient Inc.), 04 August, 2000 (04.08.00), Par. No. [0031]; Figs. 1 to 5 & US 6304523 B	33
Y	JP 2000-322819 A (NTT Docomo Inc.), 30 November, 2000 (30.11.00), Full text; Figs. 1 to 5 (Family: none)	1, 11, 35
Y	JP 2000-348035 A (Toshiba Corp.), 15 December, 2000 (15.12.00), Full text; Figs. 1 to 10 (Family: none)	32-35
Y	JP 9-297763 A (Fujitsu Ltd.), 18 November, 1997 (18.11.97), Full text; Figs. 1 to 27 (Family: none)	32-35
A	JP 2000-11604 A (Sony Corp.), 14 January, 2000 (14.01.00), Full text; Figs. 1 to 18 & EP 952581 A1 & CN 1233055 A	1-43
A	JP 2000-298978 A (Nippon Telegraph And Telephone Corp.), 24 October, 2000 (24.10.00), Full text; Figs. 1 to 7 (Family: none)	1-43
A	JP 2000-322297 A (Pioneer Electronic Corp.), 24 November, 2000 (24.11.00), Full text; Figs. 1 to 10 (Family: none)	1-43

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2000-322451 A (Pioneer Electronic Corp.), 24 November, 2000 (24.11.00), Full text; Figs. 1 to 9 (Family: none)	1-43

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